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service contains 4 millions of gallons. The water supply raised into the reservoir 102 feet above sea level, and 26 feet above the highest ground in the city, is there conveyed to the city.

The subsequent report made to the Council on the 21st of January, 1824, the Committee state some gratifying facts as to the quantity of water which experience has shown the wheels capable of raising.

"The experience of another year has furnished results that will probably be interesting to the Council, and the Committee therefore present a little in detailing the beneficial effects produced by the new Water Works at Fair Mount, which have exceeded the warmest anticipations of their most sanguine friends. The calculations formed were of the most cautious kind, for there was little experience to guide in the construction of water works calculated to raise water, and hence it was stated that forty gallons upon the wheel would be required to raise one to the reservoir, but experience has shown that thirty are more than ample, thus at once increasing the calculation of the water power of the river one third. The quantity raised was also underrated at one million of gallons in twenty-four hours, for each wheel and pump; it may now be safely stated at 1,250,000, supposing the wheel to work during the whole time, but this is not always the case, as the tide occasionally makes it prudent to stop them, to prevent straining the works.

"An experiment was made in July last for eight days, during which time four fire-engines were constantly in use during the day-time in washing the gutters, and two wheels and pumps were found adequate to supply the demand, and working only fourteen hours in twenty-four, and the consumption of water was 1,616,160 gallons in the same period of twenty-four hours. In October last, the three wheels were found sufficient to supply the city in eight hours, equal to one wheel for twenty-four hours, and supplying 1,250,000 gallons.

"In the last month, the wheels were stopped three days on account of the water being disturbed by a freshet, during which time the reservoir fell fifty-two inches; after the water had settled, the three wheels were put in operation, and, besides supplying the city with about 1,250,000 gallons, they filled the reservoir in twenty-four hours, equal in all to 3,750,000 gallons. The demand of the city for water, in very cold weather, may be stated at about 1,000,000 of gallons.

"The advantage of the large reservoir is particularly observable during a freshet in the river, as the city can be supplied for several days with clear water from them, whilst the muddy water is running off, during which time the wheels are of course stopped."

On the 24th of October, 1822, the steam-engines were stopped, and it is believed will never again be wanted. The strength of the dam was tested in the most satisfactory manner, in February, 1822, by an ice which rose eight feet above the over fall, and which is supposed to be the greatest ever known in the Schuylkill.

The whole cost to the city of the works at Fair Mount is as follows:

Cost of the water power at the Falls	\$150,000
Erection of the dam, locks, head-arches, race, and piers, including estimate of damages for overflowing by the dam	187,182
Three pumps	11,090
Mill-houses, mills, and other works connected with them	71,259
Iron raising mains	4,480
New reservoir	8,600
	\$432,512

The entire amount expended by the city of Philadelphia, on the successive operations for introducing the Schuylkill water, is shown by the following table:

Cost of the first works on Centre Square, and Chestnut Street near Schuylkill	\$693,402 81
The second steam works, including the reservoir, cost	320,669 84
The present water works cost	432,512 71
Total cost	\$1,446,585 36

The advantage of water power over steam power for such works as these, is well shown in the Report of the Watering Committee of 1823—

"By an estimate made by Mr. Graft, and exhibited to the Council, with the Report of the Committee on Water Power, on the 21st of February, 1818, it appeared that the cost of working one steam-engine and pump for one year was \$3,538 dollars, and it has been found, that with this expenditure, not more than 1,600,000 gallons could be raised in twenty-four hours—a very inadequate supply for the population of the city, consisting of above sixty thousand souls; without a gallon being afforded to the adjoining districts containing an equal number, and for whom until the present period there was no provision except by means of wells. If, therefore, it were required, at the same rate of expense, to raise an equal quantity with that at present afforded by three wheels, the cost would be upwards of 70,000 dollars, but, estimating the cost at only double that of one engine, it will amount to 140,000 dollars. From this it is to be deducted the interest on the capital expended in erecting the water power and works, which was 426,530 dollars, and was principally borrowed at an interest of five per cent, and amounts to 21,316 dollars annually, and also the expenses for wages, fuel, oil, &c. estimated at 1300 dollars annually, amounting together to 22,816 dollars, which being deducted from the sum of 61,617 dollars, leaves a clear annual saving of 38,801 dollars, equal, at an interest of five per cent, to a capital of 778,000 dollars.

"As before stated, it is not doubted that the water power is sufficient to work five wheels and pumps in addition to the three in operation, which would raise an additional quantity of more than six millions of gallons; and, estimating the saving of this quantity in the same ratio as before stated, the amount would be 166,000 dollars more, equal to a capital of upwards of two millions of dollars, and showing the whole saving or profit to be 142,000 dollars annually, a sum nearly double the amount of the city taxes, exclusive of interest on the city debt, which will soon melt away by the operation of the Sinking Fund."

In the Report of 1824, the comparative superiority of water power is again shown—

"Two men are found sufficient to attend the works, twelve hours at a time alternately, night and day, and the calculation made last year, of four dollars per day, for wages, fuel, light, &c., is, upon experience, found to be ample. The plan of warming the house has completely answered the object proposed, and no ice has formed, in the coldest weather, on the wheels, or in the pumps.

"The whole cost of the new works, including the damages, the new reservoir, and the preparation for a third one, is 432,512 dollars, the interest on which, at the rate the money was borrowed, amounts to 24,250 dollars a year, not much exceeding that formerly appropriated every year out of the city taxes for the support of the steam-engines, besides consuming the whole of the water rents. The contrast is most pleasing, when it is seen that the water rents are so much diminished, as to place in their treasury from their own savings, upwards of 14,000 dollars, whilst the sums heretofore appropriated of the taxes for the steam-engines, go to meet the interest on the debt for the erection of the works.

"But this is not the whole advantage. It was not possible with the steam-engines, that a nation and a quarter of gallons could be raised; now, three times that quantity can be had, without any increase of expense; but if the same quantity were required to be raised by additional steam-engines, the annual expense would be at least 75,000 dollars; or in other words, the expense, (excluding the first cost of the steam-engines and of the water works,) would be 266 dollars per day, to raise three millions and three quarters of gallons by steam, which is now done for four dollars per day, by water, with this further advantage, that with the expenditure of not more than 50,000 dollars for five new wheels and pumps, the quantity can be increased to ten millions of gallons in twenty-four hours, the water power being sufficient to raise more if required.

"An additional quantity of 6,750,000 gallons, raised by steam-engines, would cost 344 dollars per day, making the whole expense to raise ten millions of gallons by steam, 350 dollars per day, whilst the same quantity can be raised by water for 10 dollars per day, which includes the present expense, (before-mentioned,) of 4 dollars per day, and an allowance of six dollars for additional hands, fuel, tallow, &c., without estimating the interest on the first cost of either species of engines and pumps.

Such are the means adopted to procure a sufficient supply of water in Philadelphia. The advantages and importance of the water thus introduced, are stated in the Report of the Committee—"The additional cleanliness of the city—the supply of the neighbouring districts, for culinary purposes, as well as for purposes of refreshment—the great advantage in cases of fire—the ornament of fountains in the public squares so wisely provided by our great founder—the benefit to manufacturers, and the establishment of water power in the city for various purposes, may be named among the advantages of this new work; but above all, we are to place its effects upon the health of a great and a growing community, which of itself would justify a much greater expenditure."

The water is conveyed from the reservoir through the city by means of pipes laid below the pavements. Until lately, wooden pipes were used for this purpose; but the inadequate supply of water derived through them, and the constant vexation and expense occasioned by their bursting, have caused the substitution of iron pipes, which, although considerably more expensive in the first cost, are in the result the most economical.

The first appropriation for this purpose was a sum of 70,000 dollars, voted by the Council, in December, 1818, for a main pipe of conduit, which was soon afterwards laid—viz. from the reservoir along the old canal bank to Callowhill street, of 22 inches diameter, 2661 feet; and thence to the intersection of Broad and Chestnut streets, 6909 feet. With this are connected the iron and wooden pipes for the supply of the city. A regular plan is pursuing of replacing the wooden with iron pipes; and at the present time, including the main, there are about nine miles of iron pipes laid; during the summer of the present year (1824) about four miles more will be put down. The whole extent of pipes now laid, of wood and iron, is about thirty-five miles. The cost of the iron pipes, to 1824, is as follows—

Cost of 20 and 22 inch iron main	\$72,947 25 cts.
Cost of iron pipes of smaller dimensions, to the 31st December, 1823	87,743 58
Estimate for 1824	42,040 32
Total	\$202,731 14

At the outset of the undertaking, a number of pipes were imported from England as models, and another importation has since been made to supply the deficiency created by the failure of an American contractor; but at present the pipes are made in this country, as well and at as low a price as in England. Of the above sum of \$202,731 14 cts., only \$16,940 31 cts. have been expended on imported pipes.

To defray the expenses of these operations, taxes are annually laid, and a certain annual sum is paid by the occupier of each house in which the water is introduced. The annual rent paid for the use of the water in 1823, for the city alone, was \$26,191 5 cts.; an excess of near 2000 dollars over the interest upon the cost of the water power works. When the water shall be introduced into the adjoining districts, which is expected to take place in a short time, the income of the corporation will be considerably augmented.

In 1823, the Schuylkill water was introduced by pipes into 3954 private dwellings, and 183 manufactories; 401 private baths were also supplied with it. The lowest sum annually paid by a private dwelling was two dollars, and the highest (by a public institution) 100 dollars.

The experience of two years has shown that the water power at Fair Mount is sufficient to raise many times as much water as the city can possibly require for its consumption, and consequently that there is a surplus power applicable to other purposes. It is a easy to determine what amount of power might be spared, but it is believed to be sufficient for a very considerable number of manufactories. For the purpose of assisting the funds of the corporation, and at the same time to give facilities to manufacturing industry, it is in contemplation to extend the race down along the Schuylkill below the bridge as far as may be necessary, and to erect mills and mill-works between the race and the river, for which there would be ample space. A considerable number of applications have already been made for the use of the water power; there is no doubt that all will be taken, and that the most beneficial consequences will result to the finances and trade of the city from the proposed plan.

FOR THE SATURDAY EVENING POST.

Thinking that many of your readers would be gratified by having presented to them at this season, a retrospective view of the state of the weather during the past year, I have prepared a statement extending to the depth of rain, together with the temperature, and the highest and lowest range of the thermometer in each month. Barometrical observations are wanting to complete the meteorology of the year; I have to be furnished by some person possessing of more ample water for recording them. The present statement, however, is intended to give a character to the year in which we live, as one in which the most useful of nature was manifested, and communities, as well as individuals, enjoyed the blessings of abundance in peace, and undisturbed by the passions of war, at the expense of their posterity. It is the same spirit which would condemn the labours of the meteorologist, and accordingly, where in their utility? The present statement, I must allow, is but the gratification of a subject, which I observe, that this spirit seems destined to give a character to the age in which we live, as one in which the most useful of nature was manifested, and communities, as well as individuals, enjoyed the blessings of abundance in peace, and undisturbed by the passions of war, at the expense of their posterity. It is the same spirit which would condemn the labours of the meteorologist, and accordingly, where in their utility? The present statement, however, is intended to give a character to the year in which we live, as one in which the most useful of nature was manifested, and communities, as well as individuals, enjoyed the blessings of abundance in peace, and undisturbed by the passions of war, at the expense of their posterity. It is the same spirit which would condemn the labours of the meteorologist, and accordingly, where in their utility? 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